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18/SCI01/053

QUESTION NO 1

```
#include <stdio.h>
int main()
{
    int p;
printf("enter the year:\n");
scanf("%d",&p);


  if (p % 4==0)
      printf("This Is A Leap Year :%d",p);
  else if (p % 100== 0)
       printf("this is not a leap year :%d",p);
   else if (p % 400 == 0)
       printf("this is a leap year:%d",p);
  else
   printf("this is not a leap year ");
 return 0 ;
}
```

QUESTION NO 2

```
#include <stdio.h>
int main ()
{
  int a,b,c;
  printf("enter the first number\n");
  scanf("%d",&a);
  printf(" enter the second number\n");
  scanf("%d",&b);
  printf("enter the third number\n");
  scanf("%d",&c);
     if (a>b&&a>c)
{
       printf(" the biggest number is :%d",a);
     }
     else if (b>a&&b>c)
{
        printf("the biggest number is :%d",b);
     }
     else
{
           printf("the biggest number is :%d",c);
     }
       }
```

QUESTION 3

```
#include <stdio.h>
 #include <stdlib.h>
 #include <string.h>
 int main()
{
      char str[100], ch;
      int i, grade[7];
      float credit[7], gpa = 0.0, totCredit = 0.0;
      printf("Letter Grade and Credits for each subject:\n");
      for (i = 0; i < 7; i++)
{
            printf("Subject %d(Grade|Credit):", i + 1);
            ch = getchar();
            grade[i] = ch;
            scanf("%f", &credit[i]);
            getchar();
      }

      /* print the input grades and credits */
      printf("\nSubject | Grade | Credit\n");
      for (i = 0; i < 7; i++) {
            printf("   %d    |  %c    | %.0f\n", i + 1, grade[i], credit[i]);
      }
```

```
  /* calculate gpa value */
      for (i = 0; i < 7; i++)
{
            switch (grade[i])
{
                  case 'A':
                        gpa = gpa + 5 * credit[i];
                        totCredit = totCredit + credit[i];
                        break;
                  case 'B':
                        gpa = gpa + 4 * credit[i];
                        totCredit = totCredit + credit[i];
                        break;
                  case 'C':
                        gpa = gpa + 3 * credit[i];
                        totCredit = totCredit + credit[i];
                        break;
                  case 'D':
                        gpa = gpa + 2 * credit[i];
                        totCredit = totCredit + credit[i];
                        break;
                  case 'E':
                        gpa = gpa + 1 * credit[i];
                        totCredit = totCredit + credit[i];
                        break;
```

```
            case 'F':
                gpa = gpa + 0 * credit[i];
                totCredit = totCredit + credit[i];
                break;
            default:
                printf("Given Wrong grade!!\n");
                exit(0);
        }
    }
    printf("GPA: %f\tcredit: %f\n", gpa, totCredit);
    gpa = gpa / totCredit;
    printf("GPA for your score: %.2f\n", gpa);
    return 0;
}
```